Performance Data Sheet

RKA5470YXD

General Information

Model	RKA5470YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1640	1680					
	Watts	327	338					
	Amps	1.67	1.70					
	Lb/h	24.8	24.9					
-10	Btu/h	1960	1960	1950				
	Watts	340	355	371				
	Amps	1.72	1.77	1.83				
	Lb/h	28.9	28.8	28.7				
-5	Btu/h	2340	2300	2250	2190			
	Watts	352	371	390	409			
	Amps	1.77	1.84	1.91	1.98			
	Lb/h	33.6	33.3	33.1	32.8			
0	Btu/h	2780	2690	2590	2500	2400		
	Watts	363	385	407	429	452		
	Amps	1.82	1.90	1.98	2.07	2.15		
	Lb/h	38.9	38.5	38.1	37.7	37.3		
5	Btu/h	3280	3140	3000	2860	2720		
	Watts	371	397	423	449	475		
	Amps	1.85	1.95	2.05	2.15	2.25		
	Lb/h	44.9	44.4	43.9	43.3	42.7		
10	Btu/h	3830	3650	3460	3280	3090	2900	2710
	Watts	378	408	437	466	496	525	555
	Amps	1.88	2.00	2.11	2.23	2.34	2.46	2.58
	Lb/h	51.6	50.9	50.2	49.5	48.7	48.0	47.1
15	Btu/h	4450	4220	3980	3750	3520	3290	3050
	Watts	383	416	449	482	515	548	581
	Amps	1.90	2.03	2.16	2.30	2.43	2.56	2.69
	Lb/h	58.9	58.1	57.2	56.4	55.5	54.5	53.5
20	Btu/h	5120	4840	4560	4280	4010	3730	3450
	Watts	386	423	459	496	533	570	606
	Amps	1.91	2.06	2.21	2.36	2.51	2.65	2.80
	Lb/h	66.9	65.9	64.9	63.9	62.8	61.8	60.6

25	Btu/h	5860	5530	5200	4880	4550	4230	3900
	Watts	387	428	468	508	549	589	629
	Amps	1.92	2.08	2.25	2.41	2.58	2.74	2.91
	Lb/h	75.6	74.4	73.3	72.1	70.9	69.6	68.3
30	Btu/h	6650	6280	5910	5530	5160	4790	4410
	Watts	386	430	474	518	562	606	650
	Amps	1.91	2.09	2.27	2.45	2.64	2.82	3.00
	Lb/h	84.9	83.6	82.3	80.9	79.6	78.2	76.7
35	Btu/h	7510	7090	6670	6250	5830	5410	4980
	Watts	383	431	479	526	574	622	670
	Amps	1.89	2.09	2.29	2.49	2.69	2.89	3.09
	Lb/h	94.9	93.4	91.9	90.4	88.9	87.3	85.8
40	Btu/h	8440	7960	7490	7020	6550	6090	5620
	Watts	378	429	481	532	584	635	687
	Amps	1.87	2.08	2.30	2.52	2.73	2.95	3.16
	Lb/h	106	104	102	101	98.9	97.2	95.5
45	Btu/h	9420	8900	8380	7860	7350	6830	6310
	Watts	370	426	481	536	592	647	702
	Amps	1.83	2.06	2.30	2.53	2.77	3.00	3.23
	Lb/h	117	115	113	111	110	108	106
50	Btu/h	10500	9900	9340	8770	8200	7630	7070
	Watts	360	420	479	538	597	656	715
	Amps	1.78	2.03	2.28	2.54	2.79	3.04	3.29
	Lb/h	129	127	125	123	121	119	117
55	Btu/h	11600	11000	10400	9740	9120	8500	7890
	Watts	348	411	475	538	600	663	726
	Amps	1.72	1.99	2.26	2.53	2.80	3.07	3.34
	Lb/h	142	139	137	135	133	131	129

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.521972E+03	1.858480E+02	1.165263E+00	4.145522E+01
C2	1.674441E+02	-3.869652E+00	-1.806197E-02	1.386780E+00
C3	-9.253703E+00	2.211863E+00	8.144294E-03	-3.280260E-02
C4	1.224362E+00	-4.000020E-02	-1.851279E-04	1.350039E-02
C5	-9.398402E-01	7.318566E-02	3.350191E-04	-3.290242E-03
C6	1.618747E-03	-1.195425E-04	-1.452190E-06	7.762834E-05
C7	1.121632E-03	-8.053685E-05	-6.066440E-07	3.566126E-06
C8	-9.095162E-04	6.338755E-05	5.097291E-07	-5.163944E-06
C9	1.899323E-04	-1.286274E-05	-1.148423E-07	1.978379E-06
C10	-1.866166E-05	1.340689E-06	1.638097E-08	-8.014646E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature